
Overview

This standard addresses the competence required to produce prototypes of furniture designs.

This involves:

- 1 interpreting information
- 2 selecting methods to monitor and control the process of producing a prototype
- 3 selecting materials, methods and techniques
- 4 evaluating and reporting on prototypes
- 5 working in ways that ensure your own and others' safety

The standard is aimed at operators working in a furniture wood machining environment.

**Performance
criteria**

- You must be able to:
- P1 identify and agree the aims for realising a design prototype with others involved in the project
 - P2 select suitable media, materials and associated tools, equipment, techniques and processes to meet design objectives
 - P3 plan and organise the resources needed to realise a viable prototype and to meet deadlines
 - P4 monitor the realisation process to ensure that the prototype matches design and functional specifications
 - P5 respond appropriately to any unforeseen problems encountered during the realisation process
 - P6 use small-scale realisation techniques and processes safely and with skill and creativity
 - P7 realise the prototype to an adequate standard that enables evaluation to take place
 - P8 identify and carry out an evaluation process that enables the prototype to be judged in terms of the agreed aims
 - P9 analyse the results of the evaluation process and structure arguments in support of conclusions drawn
 - P10 communicate the results of the evaluation process to relevant people

Knowledge and understanding

You need to know and understand:

- K1 how to predict the opportunities and constraints involved in realising a prototype
- K2 how to select suitable media, materials and associated tools, equipment, techniques and processes
- K3 how to estimate skills and time required for realisation
- K4 how to schedule stages of work to meet deadlines
- K5 how to monitor progress against plans
- K6 how to interpret and meet design objectives and client requirements
- K7 the design and functional specifications that need to be met
- K8 the features, potential, limitations, availability and uses of media, materials and associated tools, equipment, techniques and processes used within the furniture industry
- K9 project constraints and deadlines that are specified and what your responsibilities are for meeting them
- K10 the regulations, environmental and health and safety considerations in the use of materials, processes and technology you are required to meet
- K11 how to carry out small-scale realisation techniques appropriate to your specialisation
- K12 how to work safely and efficiently in a studio or workplace
- K13 how to plan and carry out evaluation techniques to meet agreed aims
- K14 how to gather and record data to support evaluation decisions
- K15 how to prepare and present evaluation reports
- K16 what practical testing techniques can be applied
- K17 what evaluation techniques are usually applied in the furniture industry and what the uses and limitations are of different qualitative and quantitative approaches

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Produce furniture design prototypes



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